



**topas<sup>®</sup> plus** –

the high-performance wires for greater cutting performance and precision



**bedra**  
intelligent wires

# topas<sup>®</sup> plus

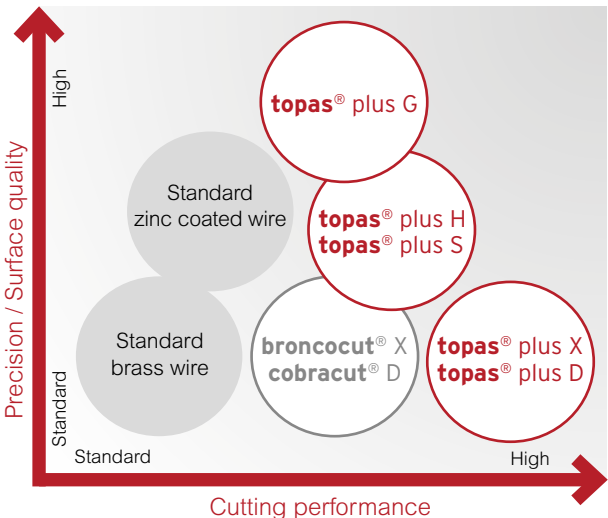
## The new dimension in cost-effectiveness and reliability

The high-quality topas<sup>®</sup> plus wire electrodes by Berkenhoff are the benchmark by which cutting performance, process reliability, precision and surface quality are measured.

topas<sup>®</sup> plus delivers tailor-made solutions for all common EDM machines. Both the type of machine and your application are decisive in your choice of the topas<sup>®</sup> plus wire that will deliver the best cutting result for your company. The reduction in the wire qualities you require is just one of the benefits that may be achieved with the comprehensive performance profile of these topas<sup>®</sup> plus electrodes.

We would be happy to assist you in choosing the topas<sup>®</sup> plus wire electrodes that are best suited to your requirements. Should you have any questions please contact your bedra specialist or get in touch directly with [topasplus@bedra.com](mailto:topasplus@bedra.com)

### topas<sup>®</sup> plus comparison



# topas<sup>®</sup> plus range

## topas<sup>®</sup> plus G

**SUPERFINISH**

	core material	coating material	tensile strength	elongation
<b>topas<sup>®</sup> plus G</b>	CuZn36	special layer	900 MPa	1%

Ø [mm]	0,20	0,25		
spool / kg bedra 8/8,0 bedra 16/16,0	• •	• •		
spool / kg K250/25,0	•	•		

## topas<sup>®</sup> plus H

	core material	coating material	tensile strength	elongation
<b>topas<sup>®</sup> plus H</b>	CuZn36	special layer	800 MPa	>1%

Ø [mm]	0,20	0,25	0,30	0,33
spool / kg bedra 8/8,0 bedra 16/16,0	• •	• •	• •	•
spool / kg K250/25,0 K355/45,0	•	• •	• •	• •
spool / kg P5/5,0 P10/10,0 P15/20,0	• • •	• • •	• • •	

## topas<sup>®</sup> plus S

	core material	coating material	tensile strength	elongation
<b>topas<sup>®</sup> plus S</b>	CuZn36	special layer	500 MPa	>10%

Ø [mm]	0,25	0,30		
spool / kg bedra 8/8,0 bedra 16/16,0	• •	• •		
spool / kg K250/25,0	•	•		

## topas<sup>®</sup> plus X

	core material	coating material	tensile strength	elongation
<b>topas<sup>®</sup> plus X</b>	Cu	zinc rich brass, double layer	500 MPa	1%

Ø [mm]	0,25	0,30	0,33	
spool / kg bedra 8/8,0 bedra 16/16,0	• •	• •	• •	
spool / kg K250/25,0 K355/45,0	• •	• •	• •	
spool / kg P10/10,0 P15/20,0	• •	• •		

## topas<sup>®</sup> plus D

	core material	coating material	tensile strength	elongation
<b>topas<sup>®</sup> plus D</b>	CuZn20	zinc rich brass, double layer	800 MPa	>1%

Ø [mm]	0,25	0,30	0,33	
spool / kg bedra 8/8,0 bedra 16/16,0	• •	• •	•	
spool / kg K250/25,0 K355/45,0	• •	• •	• •	
spool / kg P5/5,0 P10/10,0 P15/20,0	• • •	• • •		

More information  
is available at

[www.bedra.com](http://www.bedra.com)



## Application recommendation

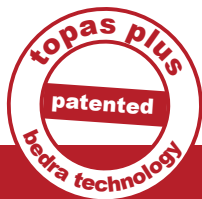
	<b>topas® plus G</b>	<b>topas® plus H</b>	<b>topas® plus S</b>	<b>topas® plus X</b>	<b>topas® plus D</b>
<b>General</b>	Special electrode that combines high cutting performance with highest precision	Universal electrode for very cost-effective erosion processes	Special electrode for efficiently cutting tapered work pieces	High-speed cutting electrode, further development of broncocut X	High-speed cutting electrode, further development of cobracut D
<b>Developed for use with:</b>	Agie machines (water and oil bath)	Machines by all leading manufacturers	Machines by all manufacturers	Charmilles machines	Agie and Japanese machines
<b>Cutting performance vs. brass wire</b>	High cutting performance (110%)	High cutting performance (120%)	High cutting performance (120%)	Highest cutting performance (135%)	Highest cutting performance (135%)
<b>Surface quality / precision</b>	<ul style="list-style-type: none"> <li>Oil bath: up to Ra 0.05 µm</li> <li>Water bath: up to Ra 0.12 µm</li> <li>Outstanding precision in contour and parallelism</li> </ul>	<ul style="list-style-type: none"> <li>Up to Ra 0.30 µm</li> <li>Very high precision</li> </ul>	<ul style="list-style-type: none"> <li>Up to Ra 0.30 µm</li> <li>Very high precision</li> </ul>	<ul style="list-style-type: none"> <li>Up to Ra 0.30 µm</li> <li>Very high precision</li> </ul>	<ul style="list-style-type: none"> <li>Up to Ra 0.4 µm</li> <li>Very high precision</li> </ul>
<b>Automatic threading</b>	Very good	Very good	Limited suitability	Very good	Good
<b>Technology recommendation</b>	Excellent for using with OEM technologies for A wire	<ul style="list-style-type: none"> <li>OEM technologies on Agie machines available</li> <li>Universally applicable with brass wire technologies</li> </ul>	Good for using with technologies for soft brass wire	Excellent for using with OEM technologies for X wire	Good for using with brass wire technologies; by technological optimization enormous potential for increasing cutting performances

# topas<sup>®</sup> plus

## That's how profit is made

topas<sup>®</sup> plus delivers many benefits compared to standard electrodes by other manufacturers:

1. High cutting rates along with an attractive price-performance ratio
2. Highest precision even when tasks are demanding
3. High process stability, particularly in unfavourable flushing conditions
4. An optimum topas<sup>®</sup> plus electrode is available for all applications
5. Considerable time and cost savings may already be achieved with standard cutting technologies
6. Highest reliability due to the well-proven bedra quality



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